IN THE CLAIMS:

Please amend the claims as follows:

Claim 1 (currently amended): [[-]] Method for producing titanium composite parts, by means of casting, which comprises the following operational stages:

- [[-]] Obtaining obtaining a titanium composite reinforcement material[[.]];
- [[-]] Obtaining obtaining a non-reinforced consumable ingot of titanium or non-reinforced titanium alloy[[.]];
- [[-]] Simultaneous simultaneous melting [[of]] the reinforcement material and [[of]] the consumable ingot[[.]] ; and
- [[-]] Casting of casting the melted composite in [[the]] <u>a</u> corresponding mould in order to produce [[the]] <u>a</u> composite piece in its final shape and dimensions.

Claim 2 (currently amended): [[-]] Method for producing titanium composite parts, by means of casting, according to claim 1, characterised in that the reinforcement material is obtained by means of the self-propagated high-temperature synthesis method.

Claim 3 (currently amended): [[-]] Method for producing titanium composite parts, by means of casting, according to claim 1, characterised in that the reinforcement material is a composite with titanium borides and/or carbides distributed in a titanium or titanium alloy matrix.

Claim 4 (currently amended): [[-]] Method for producing titanium composite parts, by means of casting, according to claim 1, characterised in that the titanium composite which constitutes the reinforcement material has between 30-70% by weight of titanium boride and/or carbide, dispersed in titanium or titanium alloy.

Claim 5 (currently amended): [[-]] Method for producing titanium composite parts, by means of casting, according to claim 1, characterised in that the consumable ingot is of titanium or titanium alloy.

Claim 6 (currently amended): [[-]] Method for producing titanium composite parts, by means of casting, according to claim 1, characterised in that the consumable ingot is a cp-Ti grade 1, cp-Ti grade 2, cp-Ti grade 3, cp-Ti grade 4, Ti-0.05Pd, Ti-6Al-4V, Ti-5Al-2.5Fe, Ti-5Al-2.5Se, Ti-6Al-2Sn-4Zr-2Mo-0.1Si, Ti-5.8Al-4Sn-3.5Zr-0.5Mo-0.7Nb-0.35Si-0.06C, Ti3Al, Ti-14Al-11Nb, Ti2AlNb, g TiAl, or Ti(22-23)Al-(25-26)Nb(at%) alloy.

Claim 7 (currently amended): [[-]] Method for producing titanium composite parts, by means of casting, according to claim 1, characterised in that the reinforcement material, which may be a single piece or divided up, and the consumable ingot are united prior to melting by a welding procedure.

Claim 8 (currently amended): [[-]] Method for producing titanium composite parts, by means of casting, according to claim 1, characterised in that the reinforcement material, which may be a single piece or be divided up, and the consumable ingot are united prior to melting by mechanical means.

Claim 9 (currently amended): [[-]] Method for producing titanium composite parts, by means of casting, according to claim 1, characterised in that the reinforcement material, which may be a single piece or be divided up, is inserted in one or more holes made in the consumable ingot.

Claim 10 (currently amended): [[-]] Method for producing titanium composite parts, by means of casting, according to claim 1, characterised in that the melting is done by the vacuum electric arc and/or vacuum induction melting method.

Claim 11 (currently amended): [[-]] Method for producing titanium composite parts, by means of casting, according to claim 1, characterised in that the casting in moulds is done by means of a centrifuging or gravity filling process.

Claim 12 (withdrawn - currently amended): [[-]] A titanium composite part <u>produced</u> by the method of claim 1 and characterised in that it is produced by casting starting from a titanium composite reinforcement material and a <u>non-reinforced</u> consumable ingot of titanium or non-reinforced titanium alloy.

Claim 13 (withdrawn - currently amended): [[-]] A titanium composite part, according to claim 12, characterised in that the reinforcement material is a composite with titanium borides and/or carbides, dispersed in titanium or titanium alloy.

Claim 14 (withdrawn - currently amended): [[-]] A titanium composite part, according to claim 12, characterised in that it has a percentage of titanium boride and/or carbide above 0% and below 70% by weight, dispersed in titanium or titanium alloy.

Claim 15 (withdrawn - currently amended): [[-]] A titanium composite part, according to claim 12, characterised in that the reinforcement material is obtained by means of the self-propagated high-temperature synthesis technique.

Claim 16 (withdrawn - currently amended): [[-]] A titanium composite part, according

to claim 12, characterised in that the titanium composite which constitutes the reinforcement material has 30-70% by weight of titanium boride and/or carbide, dispersed in titanium or titanium alloy.

Claim 17 (withdrawn - currently amended): [[-]] A titanium composite part, according to claim 12, characterised in that the consumable ingot is of titanium or titanium alloy.

Claim 18 (withdrawn - currently amended): [[-]] A titanium composite part, according to claim 12, characterised in that the consumable ingot is a cp-Ti grade 1, cp-Ti grade 2, cp-Ti grade 3, cp-Ti grade 4, Ti-0.05Pd, Ti-6Al-4V, Ti-5Al-2.5Fe, Ti-5Al-2.5Sn, Ti-6Al-2Sn-4Zr-2Mo-0.1Si, Ti-5.8Al-4Sn-3.5Zr-0.5Mo-0.7Nb-0.35Si-0.06C, Ti3Al, Ti-14Al-11Nb, Ti2AlNb, g TiAl, or Ti(22-23)Al-(25-26)Nb(at%) alloy.

Claim 19 (withdrawn - currently amended): [[-]] A titanium composite part, according to claim 12, characterised in that the reinforcement material, which may be a single piece or divided up, and the consumable ingot are united, prior to melting, by a welding procedure.

Claim 20 (withdrawn - currently amended): [[-]] A titanium composite part, according to claim 12, characterised in that the reinforcement material, which may be a single piece or divided up, and the consumable ingot are united, prior to melting, by mechanical means.

Claim 21 (withdrawn - currently amended): [[-]] A titanium composite part, according to claim 12, characterised in that, prior to melting, the reinforcement material, which may be a single piece or divided up, is inserted into one or more holes made in the consumable

ingot.

Claim 22 (withdrawn - currently amended): [[-]] A titanium composite part, according to claim 12, characterised in that the melting is done by means of the vacuum induction melting and/or vacuum electric arc melting method.

Claim 23 (withdrawn - currently amended): [[-]] A titanium composite part, according to claim 12, characterised in that the casting in the moulds is done by means of a centrifuging or gravity filling method.